

PATENT SPECIFICATION



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COMPLETE SPECIFICATION.

Improvements in Nasal Inhalers and Respirators.

I, JULES LEBERTRE, Engineer, of 83, rue du Dome, Billancourt (Seine), France, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to nasal inhalers and respirators of the type comprising two receptacles provided with filtering material and joined together by a saddle.

This invention has for its object an improved nasal inhaler and respirator adapted to be introduced in the nostrils either for filtering the air indrawn through the nose in all places where the air is loaded with moisture or dust, or for causing medicinal products to enter in the windpipe.

This apparatus comprises, substantially, two cups provided with a perforated bottom, connected together and closed by covers also perforated, fitting on the said cups, so as to form two receptacles adapted to contain any material capable of filtering the air indrawn, the said filtering material being preferably constituted by plugs of cotton.

The apparatus thus constructed may be conveniently used, without any modification, as a medicinal inhaler; the plugs of cotton may be, in fact, impregnated with any liquid medicine.

The special construction of the receptacles of the inhaler, which are provided with a perforated bottom and cover, prevents the accidental dropping out of the filtering material contained therein, whilst, however, permitting the passage of the air which is filtered or purified during its passage; the covers being made detachable so as to allow, the easy introduction and replacement of the filtering material.

Besides, in case the apparatus is used as a medicinal inhaler, there is no risk of the medicine flowing out of the apparatus and of this medicine coming in direct contact with the nasal mucous membrane.

An inhaler constructed in accordance

with this invention is illustrated on an enlarged scale, by way of example, in the accompanying drawings, in which:

Figure 1 is a front elevation;

Figure 2 a plan view;

Figure 3 a longitudinal vertical section made according to line A—A of Fig. 2 and

Figure 4 is a perspective view of the whole of the apparatus, the members being supposed as separated.

As illustrated in the drawings, the inhaler essentially comprises two cups 1 made of any metal or of celluloid, the bottom of the cups being perforated with fine openings 2.

These cups are connected together by a yoke 3 maintaining them at a suitable distance apart and adapted to straddle the wall separating the nostrils limiting the penetration of the apparatus in the latter.

Each of these cups is closed by a cap or cover 4 fitting exactly on said cup so that no exterior projection is formed.

The caps 4, which may be made of any suitable metal or of celluloid, are provided at their upper parts with tops 5 also perforated with fine openings.

The above described nasal inhaler and respirator has the important advantage that it can be easily charged with the filtering material which may be replaced according to the needs, whilst preventing the accidental dropping out of the said material, the perforated bottoms of the apparatus preventing moreover the flowing out of any liquid products with which the plugs of cotton may be impregnated.

Besides, when the apparatus is made of celluloid, it may be of such a tint that it will blend with the colour of the skin so that it can thus be worn out of doors.

It is to be understood that this apparatus is given only by way of example and that the form, sizes and materials may be varied without departing thereby from the spirit of the invention.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to

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be performed, I declare that what I claim is:—

1. A nasal inhaler and respirator comprising two receptacles, each provided
5 with filtering material impregnated or not with a liquid medicine, and connected at their base by a yoke allowing the introduction of the inhaler into the nostrils, characterised by the fact that the two
10 receptacles with the filtering material are formed by two vessels, which have fine perforations in their ends and engage one another in a removable manner, and are constructed so as to prevent an accidental
15 dropping out of the filtering material, and allow the latter to be replaced when desired.

2. A nasal inhaler and respirator as claimed in Claim 1, characterised by the

fact that each receptacle comprises a cup which has its bottom perforated with series of small openings and a cover which also has its top perforated with series of small openings, said vessels enclosing plugs of cotton or other filtering material impregnated or not with a liquid medicine, the said cover fitting exactly on the cup in such a manner so as to avoid any external projections and any flowing out of the liquid medicine upon the mucous membrane of the nose.

3. The improved nasal inhaler and respirator substantially as hereinbefore described and as illustrated in the accompanying drawings.

Dated this 19th day of January, 1920.

MARKS & CLERK.

Fig. 1.

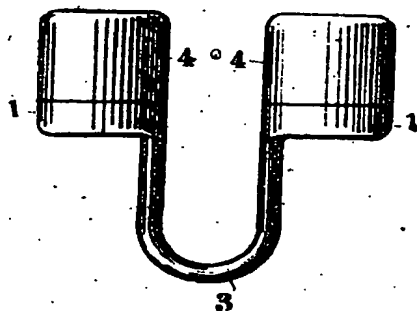


Fig. 3.

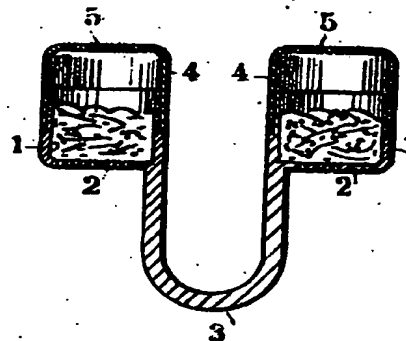


Fig. 2.

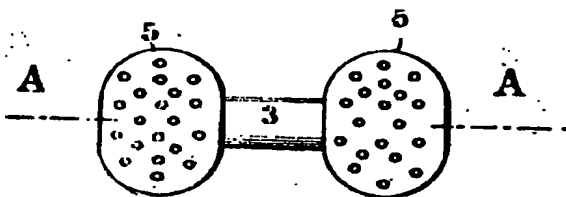
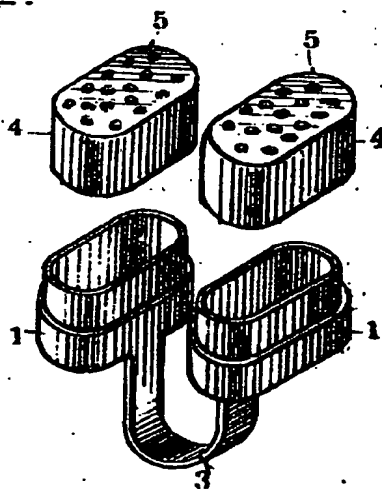


Fig. 4.



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[This Drawing is a reproduction of the Original on a reduced scale.]